Honeywell

Easy*Parse* for GS1 DataBar™

Total*Freedom*® Formatting Plug-in

Integration Guide

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Patents

For patent information, refer to www.hsmpats.com.

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Customer Support

Technical Assistance

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to www.honeywellaidc.com/working-with-us/contact-technical-support.

For our latest contact information, see www.honeywellaidc.com/locations.

CHAPTER

1 INTRODUCTION

Honeywell's Easy*Parse* for GS1 DataBar™ software plug-in parses barcode data adhering to GS1 General Specifications 8.0 standards and provides specific information such as GTIN [AI-01] [Horizontal Tab] USE BY or EXPIRY [AI-17]. Easy*Parse* for GS1 DataBar may be purchased installed on select Honeywell products or purchased as a standalone upgrade. Refer to Easy*Parse* for GS1 DataBar Data Sheet, available at www.honeywellaidc.com, for a complete list of supported products.

Note: *Honeywell cannot be held responsible for barcodes not able to be read that do not comply with standards set forth by GS1 General Specifications.*

CHAPTER

2 GETTING STARTED

Software Activation

A license key is required to activate the full version of Easy*Parse* for GS1 DataBar. Contact Customer Support on page v for information on purchasing a licensing key.

Software Installation

Note: *Honeywell products ordered with EasyParse for GS1 DataBar do not require software installation or software activation. See To Enable Software Plug-In on page 4 for instructions on how to enable the software plug-in.*

Items required for installation:

- A computer with access to the Internet
- The scanner's User Guide
- The firmware upgrade cable specified in the scanner's User Guide
- EZConfig for Scanning software, downloadable at no additional cost from www.honeywellaidc.com

Note: *The following installation procedure is not applicable for scanners that do not support firmware updates through EZConfig for Scanning download feature. Consult the scanner's User Guide to verify the capabilities of the scanner before proceeding.*

To install the Easy*Parse* for GS1 DataBar software plug-in:

1. Download and save the Easy*Parse* for GS1 DataBar plug-in trial software available at www.honeywellaidc.com.

Note: *The free trial version of EasyParse for GS1 DataBar has unlimited trials, however inserts "X" characters in the data stream. To prevent "X" characters from appearing in the transmitted data stream, a full EasyParse for GS1 DataBar license must be purchased. Contact Customer Support on page v for more information on how to purchase an EasyParse for GS1 DataBar license.*

2. Consult the scanner's User Guide for information on the specific cable required for firmware updates.
3. Connect the cable to the scanner and an available RS232 serial or USB port on the host system.
4. Start the EZConfig for Scanning software. Click on the **Help** file in the menu bar. Select **Help Topics** and follow the steps under **Connecting to a Device**.
5. In the Application Explorer, select **Download**. In the Main Workspace, click on the "**...**" button to browse for the Easy*Parse* for GS1 DataBar flash image file (*.moc.) Click on the **Download to Device** button.
6. After the firmware has been downloaded to the scanner, scan the **Save Custom Defaults** barcode in the User Guide.
7. To activate Easy*Parse* for GS1 DataBar software, scan the **Activate Plug-in** barcode followed by the **Reset** barcode. Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

Using the following codes for 2D Scanners

Activate Plug-In

Reset

Use the following codes for 1D Scanners

Activate Plug-In

Reset

To Enable Software Plug-In

Scan the **Enable Easy*Parse* for GS1 DataBar** barcode to enable the Easy*Parse* for GS1 DataBar software plug-in. Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D). *Default = Enable EasyParse for GS1 DataBar.*

Using the following codes for 2D Scanners

*** Enable Easy*Parse* for GS1 DataBar**

Disable Easy*Parse* for GS1 DataBar

Use the following codes for 1D Scanners

9902A2004#ACTIVATE#.

*** Enable Easy*Parse* for GS1 DataBar**

9902A2004#DEACTIVATE#.

Disable Easy*Parse* for GS1 DataBar

CHAPTER

3 DATA TRANSMISSION CONFIGURATION

Before starting the configuration process, identify the necessary data fields required for the application and the order with which the data must be transmitted to the electronic form or database.

The default format of parsing configuration is GTIN [AI-01].

Note: *Ensure the scanner is configured to read GS1 symbologies.*

Configuration

To configure the scanner for Programming Mode configuration:

1. Scan **Enter Programming Mode** barcode on page 8.
2. Scan the **Start Configuration** barcode on page 9.
3. Scan each required data field barcode in the order of the desired transmission sequence (starting on page 10), if necessary, desired formatting option (starting on page 44) with desired separators for data fields (starting on page 56).
4. Scan the **End Configuration** barcode on page 9.
5. Scan **Exit Programming Mode** barcode on page 8.

Note: *The barcodes must be scanned in this sequence. If scanned out of sequence the scanner will razz and no action will be taken.*

Note: *EasyParse for GS1 DataBar plug-in supports various formats for Application Identifiers present in GS1 data barcodes. For example, USE BY or EXPIRY [AI-17] has various date formats available. If formatting is required, scan the data field barcode followed by the desired format for the field, starting on page 44.*

Enter/Exit Programming Mode Barcodes

Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

Using the following codes for 2D Scanners

Enter Programming Mode

Exit Programming Mode

Use the following codes for 1D Scanners

Enter Programming Mode

Exit Programming Mode

Start/End Configuration Barcodes

Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

Using the following codes for 2D Scanners

Start Configuration

End Configuration

Use the following codes for 1D Scanners

Start Configuration

End Configuration

Data Field Options for Programming Mode

For detailed field descriptions, please refer to GS1 General Specifications Version 8.0 (www.gs1.org).

Items

Field Name	Menu Command	Programming Code
SSCC [AI-00]	9902F00	
GTIN [AI-01]	9902F01	
CONTENT [AI-02]	9902F02	
BATCH/LOT [AI-10]	9902F03	
VARIANT [AI-20]	9902F09	

Field Name	Menu Command	Programming Code
SERIAL [AI-21]	9902F0A	9902F0A
QTY/DATE/BATCH [AI-22]	9902F0B	9902F0B
TPX [AI-235]	9902F7E	9902F7E
ADDITIONAL ID [AI-240]	9902F0C	9902F0C
CUST. PART NO. [AI-241]	9902F0D	9902F0D
MTO VARIANT [AI-242]	9902F0E	9902F0E

Field Name	Menu Command	Programming Code
PCN [AI-243]	9902F7F	9902F7F
SECONDARY SERIAL NO. [AI-250]	9902F0F	9902F0F
REF. TO SOURCE [AI-251]	9902F10	9902F10
DOC. ID [AI-253]	9902F11	9902F11
GCN [AI-255]	9902F80	9902F80
PROD/SERV LOC [AI-416]	9902F83	9902F83

Field Name	Menu Command	Programming Code
PARTY [AI-417]	9902F84	9902F84
NSN [AI-7001]	9902F5F	9902F5F
MEAT CUT [AI-7002]	9902F60	9902F60
ACTIVE POTENCY [AI-7004]	9902FA5	9902FA5
CATCH AREA [AI-7005]	9902FA6	9902FA6
AQUATIC SPECIES [AI-7008]	9902FA9	9902FA9

Field Name	Menu Command	Programming Code
FISHING GEAR TYPE [AI-7009]	9902FAA	9902FAA
PROD METHOD [AI-7010]	9902FAB	9902FAB
FUNC STAT [AI-7021]	9902FAD	9902FAD
REV STAT [AI-7022]	9902FAE	9902FAE
GIAI - ASSEMBLY [AI-7023]	9902FAF	9902FAF
NHRN - GERMANY PZN [AI-710]	9902F7C	9902F7C

Field Name	Menu Command	Programming Code
NHRN - FRANCE CIP [AI-711]	9902F87	
NHRN - SPAIN NATIONAL CODE [AI-712]	9902F88	
NHRN - BRASIL DRN [AI-713]	9902F7A	
NHRN - PORTUGAL INFARMED [AI-714]	9902F89	
CERTS #s [AI-723s]	9902F8A	
PROTOCOL [AI-7240]	9902FB1	

Field Name	Menu Command	Programming Code
CMT NO. [AI-8002]	9902F63	9902F63
GCTIN [AI-8006]	9902F67	9902F67
OPTSEN [AI-8009]	9902FB2	9902FB2
CPID [AI-8010]	9902FB3	9902FB3
CPID SERIAL [AI-8011]	9902FB4	9902FB4
VERSION [AI-8012]	9902FB5	9902FB5

Field Name	Menu Command	Programming Code
GMN [AI-8013]	9902FB6	
SRIN [AI-8019]	9902FB8	
ITIP CONTENT [AI-8026]	9902FB9	
POINTS [AI-8111]	9902FBA	
FORMATTED RULES [AI-8112]	9902FBB	
EXTENDED PACKAGING URL [AI-8200]	9902F7B	

Dates

Field Name	Menu Command	Programming Code
PROD DATE [AI-11]	9902F04	9902F04
DUE DATE [AI-12]	9902F05	9902F05
PACK DATE [AI-13]	9902F06	9902F06
BEST BEFORE or SELL BY [AI-15]	9902F07	9902F07
FUNC STAT [AI-16]	9902F7D	9902F7D
USE BY or EXPIRY [AI-17]	9902F08	9902F08

Field Name	Menu Command	Programming Code
PRCNT OFF [AI-394n]	9902F81	9902F81
PRICE/UoM [AI-395n]	9902F82	9902F82
ORIGIN SUBDIVISION [AI-427]	9902F85	9902F85
NBEF DEL DT. [AI-4324]	9902FA2	9902FA2
NAFT DEL DT. [AI-4325]	9902FA3	9902FA3
REL DATE [AI-4326]	9902FA4	9902FA4

Field Name	Menu Command	Programming Code
EXPIRY TIME [AI-7003]	9902F61	9902F61
FIRST FREEZE DATE [AI-7006]	9902FA7	9902FA7
HARVEST DATE [AI-7007]	9902FA8	9902FA8
PROD. TIME [AI-8008]	9902F69	9902F69

Measures

Field Name	Menu Command	Programming Code
VAR. COUNT [AI-30]	9902F13	9902F13
NET WEIGHT (kg) [AI-310n]	9902F14	9902F14
LENGTH (m) [AI-311n]	9902F15	9902F15
WIDTH (m) [AI-312n]	9902F16	9902F16
HEIGHT (m) [AI-313n]	9902F17	9902F17
AREA (m^2) [AI-314n]	9902F18	9902F18

Field Name	Menu Command	Programming Code
NET VOLUME (l) [AI-315n]	9902F19	9902F19
NET VOLUME (m^3) [AI-316n]	9902F1A	9902F1A
NET WEIGHT (lbs.) [AI-320n]	9902F1B	9902F1B
LENGTH (in.) [AI-321n]	9902F1C	9902F1C
LENGTH (ft.) [AI-322n]	9902F1D	9902F1D
LENGTH (yds.) [AI-323n]	9902F1E	9902F1E

Field Name	Menu Command	Programming Code
WIDTH (in.) [AI-324n]	9902F1F	9902F1F
WIDTH (ft.) [AI-325n]	9902F20	9902F20
WIDTH (yds.) [AI-326n]	9902F21	9902F21
HEIGHT (in.) [AI-327n]	9902F22	9902F22
HEIGHT (ft.) [AI-328n]	9902F23	9902F23
HEIGHT (yds.) [AI-329n]	9902F24	9902F24

Field Name	Menu Command	Programming Code
GROSS WEIGHT (kg) [AI-330n]	9902F25	9902F25
LENGTH (m), log [AI-331n]	9902F26	9902F26
WIDTH (m), log [AI-332n]	9902F27	9902F27
HEIGHT (m), log [AI-333n]	9902F28	9902F28
AREA (m^2), log [AI-334n]	9902F29	9902F29
GROSS VOLUME (l), log [AI-335n]	9902F2A	9902F2A

Field Name	Menu Command	Programming Code
GROSS VOLUME (m^3), log [AI-336n]	9902F2B	9902F2B
KG per m^2 [AI-337n]	9902F2C	9902F2C
GROSS WEIGHT (lbs.) [AI-340n]	9902F2D	9902F2D
LENGTH (in.), log [AI-341n]	9902F2E	9902F2E
LENGTH (ft.), log [AI-342n]	9902F2F	9902F2F
LENGTH (yd.), log [AI-343n]	9902F30	9902F30

Field Name	Menu Command	Programming Code
WIDTH (in.), log [AI-344n]	9902F31	9902F31
WIDTH (ft.), log [AI-345n]	9902F32	9902F32
WIDTH (yd.), log [AI-346n]	9902F33	9902F33
DEPTH (in.), log [AI-347n]	9902F34	9902F34
DEPTH (ft.), log [AI-348n]	9902F35	9902F35
DEPTH (yd.), log [AI-349n]	9902F36	9902F36

Field Name	Menu Command	Programming Code
AREA (in.^{2}), log [AI-350n]	9902F37	9902F37
AREA (ft. ^{2}), log [AI-351n]	9902F38	9902F38
AREA (yds.^{2}), log [AI-352n]	9902F39	9902F39
AREA (in.^{2}), log [AI-353n]	9902F3A	9902F3A
AREA (ft.^{2}), log [AI-354n]	9902F3B	9902F3B
AREA (yd.^{2}), log [AI-355n]	9902F3C	9902F3C

Field Name	Menu Command	Programming Code
NET WEIGHT (Troy oz.) [AI-356n]	9902F3D	9902F3D
NET WEIGHT (oz.) [AI-357n]	9902F3E	9902F3E
NET VOLUME (qt.) [AI-360n]	9902F3F	9902F3F
NET VOLUME (gal.) [AI-361n]	9902F40	9902F40
VOLUME (qt.), log [AI-362n]	9902F41	9902F41
VOLUME (gal.), log [AI-363n]	9902F42	9902F42

Field Name	Menu Command	Programming Code
NET VOLUME (in.^{3}) [AI-364n]	9902F43	9902F43
NET VOLUME (ft.^{3}) [AI-365n]	9902F44	9902F44
NET VOLUME (yds.^{3}) [AI-366n]	9902F45	9902F45
VOLUME (in.^{3}), log [AI-367n]	9902F46	9902F46
VOLUME (ft.^{3}), log [AI-368n]	9902F47	9902F47
VOLUME (yd.^{3}) [AI-369n]	9902F48	9902F48

Field Name	Menu Command	Programming Code
COUNT [AI-37]	9902F49	9902F49
REFURB LOT [AI-7020]	9902FAC	9902FAC
DIMENSIONS [AI-8001]	9902F62	9902F62

Currency

Field Name	Menu Command	Programming Code
AMOUNT [AI-390n]	9902F4A	9902F4A
AMOUNT - ISO [AI-391n]	9902F4B	9902F4B
PRICE [AI-392n]	9902F4C	9902F4C
PRICE - ISO [AI-393n]	9902F4D	9902F4D
PRICE PER UNIT [AI-8005]	9902F66	9902F66
IBAN [AI-8007]	9902F68	9902F68

Field Name	Menu Command	Programming Code
REF. NO [AI-8020]	9902F6B	

Sale

Field Name	Menu Command	Programming Code
GLN EXTENSION [AI-254]	9902F12	
ORDER NUMBER [AI-400]	9902F4E	
CONSIGNMENT [AI-401]	9902F4F	
SHIPMENT No. [AI-402]	9902F50	
ROUTE [AI-403]	9902F51	
SHIP TO LOC [AI-410]	9902F52	

Field Name	Menu Command	Programming Code
BILL TO [AI-411]	9902F53	9902F53
PURCHASE FROM [AI-412]	9902F54	9902F54
SHIP FOR LOC [AI-413]	9902F55	9902F55
LOC No [AI-414]	9902F56	9902F56
PAY TO [AI-415]	9902F57	9902F57
SHIP TO POST [AI-420]	9902F58	9902F58

Field Name	Menu Command	Programming Code
SHIP TO POST - ISO [AI-421]	9902F59	9902F59
ORIGIN [AI-422]	9902F5A	9902F5A
COUNTRY - INTIAL PROCESS [AI-423]	9902F5B	9902F5B
COUNTRY - PROCESS [AI-424]	9902F5C	9902F5C
COUNTRY - DISASSEMBLY [AI-425]	9902F5D	9902F5D
COUNTRY - FULL PROCESS [AI-426]	9902F5E	9902F5E

Field Name	Menu Command	Programming Code
SHIP TO COMP [AI-4300]	9902F8B	9902F8B
SHIP TO NAME [AI-4301]	9902F8C	9902F8C
SHIP TO ADD1 [AI-4302]	9902F8D	9902F8D
SHIP TO ADD2 [AI-4303]	9902F8E	9902F8E
SHIP TO SUM [AI-4304]	9902F8F	9902F8F
SHIP TO LOC [AI-4305]	9902F90	9902F90

Field Name	Menu Command	Programming Code
SHIP TO REG [AI-4306]	9902F91	
SHIP TO COUNTRY [AI-4307]	9902F92	
SHIP TO PHONE [AI-4308]	9902F93	
RTN TO COMP [AI-4310]	9902F94	
RTN TO NAME [AI-4311]	9902F95	
RTN TO ADD1 [AI-4312]	9902F96	

Field Name	Menu Command	Programming Code
RTN TO ADD2 [AI-4313]	9902F97	9902F97
RTN TO SUB [AI-4314]	9902F98	9902F98
RTN TO LOC [AI-4315]	9902F99	9902F99
RTN TO REG [AI-4316]	9902F9A	9902F9A
RTN TO COUNTRY [AI-4317]	9902F9B	9902F9B
RTN TO POST [AI-4318]	9902F9C	9902F9C

Field Name	Menu Command	Programming Code
RTN TO PHONE [AI-4319]	9902F9D	9902F9D
SRV DESCRIPTION [AI-4320]	9902F9E	9902F9E
DANGEROUS GOODS [AI-4321]	9902F9F	9902F9F
AUTH LEAVE [AI-4322]	9902FA0	9902FA0
SIG REQUIRED [AI-4323]	9902FA1	9902FA1
PROCESSOR #s [AI-703s]	9902F86	9902F86

Field Name	Menu Command	Programming Code
GRAI [AI-8003]	9902F64	9902F64
GRAI [AI-8004]	9902F65	9902F65
GSRN - PROVIDER [AI-8017]	9902FB7	9902FB7
GSRN - RECIPENT [AI-8018]	9902F6A	9902F6A

Coupons

Field Name	Menu Command	Programming Code
UIC + EXT [AI-7040]	9902FB0	
COUPON + OFFER [AI-8100]	9902F6C	
COUPON + OFFER + END OF OFFER [AI-8101]	9902F6D	
COUPON [AI-8102]	9902F6E	
NA COUPON [AI-8102]	9902F6F	

Trading Partners - Others

Field Name	Menu Command	Programming Code
MUTUAL INFO. [AI-90]	9902F70	
INTERNAL 1 [AI-91]	9902F71	
INTERNAL 2 [AI-92]	9902F72	
INTERNAL 3 [AI-93]	9902F73	
INTERNAL 4 [AI-94]	9902F74	
INTERNAL 5 [AI-95]	9902F75	

Field Name	Menu Command	Programming Code
INTERNAL 6 [AI-96]	9902F76	
INTERNAL 7 [AI-97]	9902F77	
INTERNAL 8 [AI-98]	9902F78	
INTERNAL 9 [AI-99]	9902F79	

Formatting Options for Select Data Fields

Field Name	Menu Command	Programming Code
Indicator Digit	9902X00	
Country Prefix	9902X01	
Company Global Prefix	9902X02	
Item Reference Number	9902X03	
Check Digit	9902X04	
mmddyyyy	9902X05	

Field Name	Menu Command	Programming Code
mm-dd-yyyy	9902X06	
mm/dd/yyyy	9902X07	
mmddyy	9902X08	
mm-dd-yy	9902X09	
mm/dd/yy	9902X0A	
ddmmyyyy	9902X0B	

Field Name	Menu Command	Programming Code
dd-mm-yyyy	9902X0C	
dd/mm/yyyy	9902X0D	
ddmmyy	9902X0E	
dd-mm-yy	9902X0F	
dd/mm/yy	9902X10	
yyyy-mm-dd	9902X11	

Field Name	Menu Command	Programming Code
yyyy/mm/dd	9902X12	9902X12
yymm	9902X13	9902X13
yy-mm	9902X14	9902X14
yy/mm	9902X15	9902X15
yyyy	9902X16	9902X16
yy	9902X17	9902X17

Field Name	Menu Command	Programming Code
mm	9902X18	
mmm	9902X19	
mmYY	9902X20	
Full Text (month)	9902X1A	
dd	9902X1B	
hh	9902X1C	

Field Name	Menu Command	Programming Code
mm (minutes)	9902X1D	
12 Hour Format [AM/PM]	9902X1E	
ss (seconds)	9902X1F	
mm-yy	9902X21	
mm/yy	9902X22	
GDTI	9902X23	

Field Name	Menu Command	Programming Code
Serial Number	9902X24	9902X24
Number formatted with appropriately placed decimal separator	9902X25	9902X25
Number formatted with appropriately placed comma separator	9902X26	9902X26
Covert to Grams	9902X27	9902X27
Drop 00 from Date	9902X28	9902X28
Convert to centimeter	9902X29	9902X29

Field Name	Menu Command	Programming Code
Convert to ft.	9902X2A	9902X2A
Convert to gallons	9902X2B	9902X2B
Convert to kg	9902X2C	9902X2C
Convert to meter	9902X2D	9902X2D
Convert to lbs.	9902X2E	9902X2E
Convert to lbs./ft.^{2}	9902X2F	9902X2F

Field Name	Menu Command	Programming Code
Convert to liters	9902X30	
Convert to m^3	9902X31	
First Data Group (Currency/ Country Code)	9902X32	
Second Data Group (Value)	9902X33	
Supply Class	9902X34	
Assigning Country	9902X35	

Field Name	Menu Command	Programming Code
Sequence Number	9902X36	
Slit width, mm	9902X37	
Actual length, m	9902X38	
Internal Core Diameter, mm	9902X39	
Winding Direction	9902X3A	
Number of Splices	9902X3B	

Field Name	Menu Command	Programming Code
GRAI	9902X3C	
GTIN	9902X3D	
Component within Assembly	9902X3E	
Total Number of Components in Assembly	9902X3F	
UPC Prefix	9902X40	
Offer Code	9902X41	

Field Name	Menu Command	Programming Code
Expiration Date	9902X42	
Piece Number	9902X44	
Total Count	9902X45	

Separators for Programming Mode

Field Name	Menu Command	Programming Code
Line Feed	9902S0A	
Vertical Tab	9902S0B	
Horizontal Tab	9902S09	
Carriage Return	9902S0D	
Space “ “	9902S20	
Comma “,”	9902S2C	

Field Name	Menu Command	Programming Code
NULL	9902S00	9902S00
Start of Header	9902S01	9902S01
Start of Text	9902S02	9902S02
End of Text	9902S03	9902S03
End of Transmission	9902S04	9902S04
Enquiry	9902S05	9902S05

Field Name	Menu Command	Programming Code
Acknowledge	9902S06	
Bell	9902S07	
Backspace	9902S08	
Form Feed	9902S0C	
Shift Out	9902S0E	
Shift In	9902S0F	

Field Name	Menu Command	Programming Code
Data Link Escape	9902S10	9902S10
Device Control 1	9902S11	9902S11
Device Control 2	9902S12	9902S12
Device Control 3	9902S13	9902S13
Device Control 4	9902S14	9902S14
Negative ACK	9902S15	9902S15

Field Name	Menu Command	Programming Code
Synchronous Idle	9902S16	
End of Text Block	9902S17	
Cancel	9902S18	
End of Medium	9902S19	
Substitute	9902S1A	
Escape	9902S1B	

Field Name	Menu Command	Programming Code
File Separator	9902S1C	
Group Separator	9902S1D	
Record Separator	9902S1E	
Unit Separator	9902S1F	
Exclamation Point “!”	9902S21	
Quotation Mark “	9902S22	

Field Name	Menu Command	Programming Code
Cross Hatch “#”	9902S23	
Dollar Sign “$”	9902S24	
Percent Sign “%”	9902S25	
Ampersand “&”	9902S26	
Closing Single Quote “’”	9902S27	
Opening Parentheses “(“	9902S28	

Field Name	Menu Command	Programming Code
Closing Parentheses “)”	9902S29	9902S29
Asterisk “*”	9902S2A	9902S2A
Plus “+”	9902S2B	9902S2B
Hyphen “-”	9902S2D	9902S2D
Period “.”	9902S2E	9902S2E
Forward Slant “/”	9902S2F	9902S2F

Field Name	Menu Command	Programming Code
0	9902S30	
1	9902S31	
2	9902S32	
3	9902S33	
4	9902S34	
5	9902S35	

Field Name	Menu Command	Programming Code
6	9902S36	9902S36
7	9902S37	9902S37
8	9902S38	9902S38
9	9902S39	9902S39
Colon ":"	9902S3A	9902S3A
Semi-Colon ";"	9902S3B	9902S3B

Field Name	Menu Command	Programming Code
Less Than Sign “<”	9902S3C	9902S3C
Equals Sign “=”	9902S3D	9902S3D
Greater Than Sign “>”	9902S3E	9902S3E
Question Mark “?”	9902S3F	9902S3F
At Sign “@”	9902S40	9902S40
A	9902S41	9902S41

Field Name	Menu Command	Programming Code
B	9902S42	
C	9902S43	
D	9902S44	
E	9902S45	
F	9902S46	
G	9902S47	

Field Name	Menu Command	Programming Code
H	9902S48	
I	9902S49	
J	9902S4A	
K	9902S4B	
L	9902S4C	
M	9902S4D	

Field Name	Menu Command	Programming Code
N	9902S4E	
O	9902S4F	
P	9902S50	
Q	9902S51	
R	9902S52	
S	9902S53	

Field Name	Menu Command	Programming Code
T	9902S54	
U	9902S55	
V	9902S56	
W	9902S57	
X	9902S58	
Y	9902S59	

Field Name	Menu Command	Programming Code
Z	9902S5A	
Opening Square Bracket “[“	9902S5B	
Reverse Slant “\”	9902S5C	
Closing Square Bracket “]”	9902S5D	
Caret “^”	9902S5E	
Underscore “_”	9902S5F	

Field Name	Menu Command	Programming Code
Opening Single Quote ‘	9902S60	9902S60
a	9902S61	9902S61
b	9902S62	9902S62
c	9902S63	9902S63
d	9902S64	9902S64
e	9902S65	9902S65

Field Name	Menu Command	Programming Code
f	9902S66	9902S66
g	9902S67	9902S67
h	9902S68	9902S68
i	9902S69	9902S69
j	9902S6A	9902S6A
k	9902S6B	9902S6B

Field Name	Menu Command	Programming Code
l	9902S6C	
m	9902S6D	
n	9902S6E	
o	9902S6F	
p	9902S70	
q	9902S71	

Field Name	Menu Command	Programming Code
r	9902S72	9902S72
s	9902S73	9902S73
t	9902S74	9902S74
u	9902S75	9902S75
v	9902S76	9902S76
w	9902S77	9902S77

Field Name	Menu Command	Programming Code
x	9902S78	9902S78
y	9902S79	9902S79
z	9902S7A	9902S7A
Opening Curly Bracket “{“	9902S7B	9902S7B
Vertical Line “|”	9902S7C	9902S7C
Closing Curly Bracket “}”	9902S7D	9902S7D

Field Name	Menu Command	Programming Code
Tilde “~”	9902S7E	
DEL	9902S7F	

Symbol Programming Barcodes

Easy*Parse* for GS1 DataBar can be configured to accept all symbologies. By default, only the following symbologies are accepted: GS1-128, GS1 DataBar, Composite Code, GS1 Data Matrix, EAN, and UPC.

Scan the **All Symbologies On** barcode to enable all symbologies. Scan **All Symbologies Off** barcode to enable only GS1 symbologies. Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

Using the following codes for 2D Scanners

All Symbologies On

All Symbologies Off

Use the following codes for 1D Scanners

All Symbologies On

All Symbologies Off

Error Beep Programming Barcodes

The beeper may be configured **Error Beep On** or **Error Beep Off** in response to a non-GS1 barcode. *Default = Error Beep Off*.

Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

Using the following codes for 2D Scanners

Error Beep On

***Error Beep Off**

Use the following codes for 1D Scanners

Error Beep On

9902A2004#BEEP_OFF#.

***Error Beep Off**

Decimal Precision Programming Barcodes

The precision value for decimal point data can be configured using the barcodes below. *Default = Decimal Precision 2*.

Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

Using the following codes for 2D Scanners

Decimal Precision 0

Decimal Precision 1

*** Decimal Precision 2**

Decimal Precision 3

Decimal Precision 4

Use the following codes for 1D Scanners

9902A2004#DEC00#.

Decimal Precision 0

9902A2004#DEC01#.

Decimal Precision 1

9902A2004#DEC02#.

*** Decimal Precision 2**

9902A2004#DEC03#.

Decimal Precision 3

9902A2004#DEC04#.

Decimal Precision 4

Remove Application Identifiers Barcodes

Scan only the barcodes relevant for your scanner type (e.g., 2D or 1D).

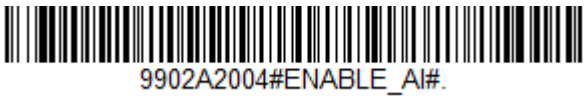
Using the following codes for 2D Scanners

Remove Application Identifiers On

Remove Application Identifiers Off

Remove Application Identifiers On & Brackets On

Use the following codes for 1D Scanners



Remove Application Identifiers On

Remove Application Identifiers Off

Remove Application Identifiers On & Brackets On

CHAPTER

4 CONFIGURATION UTILITY

Easy*Parse* for GS1 DataBar can also be configured using Honeywell's Easy*Parse* for GS1 DataBar Configuration Utility.

To configure using the Easy*Parse* for GS1 DataBar Configuration Utility:

1. Start the Easy*Parse* for GS1 DataBar Configuration Utility. *Select AI Group* from the list of available groups shown in the drop-down list to populate available fields. By default, *Item* fields are shown.
2. Select the desired *Application Identifier* or *Separator* from the list boxes. Click on the **Insert** button (>>) or double click on the item to add it to the *Data Output Format* list box.
3. The *Separator Fields* list box can be extended to show all supported ASCII characters by checking the **Show All Separators** box.
4. Formatting options are available for different *Application Identifiers* within different groups. Select one of these identifiers and the options are displayed in the *Data Format* list box.
5. Select the desired *Application Identifier* followed by required *Data Format* option. Click on the **Insert** button (>>) or double click on the item to add it to the *Data Output Format* list box.
6. To select a *Data Format*, click on the desired option. To deselect, double click the option.
7. To move a selected identifier in the *Data Output Format* list box, click on the **Move Up** or **Move Down** buttons until the identifier has been moved to the desired location.
8. To remove a selected identifier in the *Data Output Format* list box, click on the **Remove** button (<<.)
9. To configure a delay after a separator, select the separator from the *Separator* drop-down list. Enter the *Delay* amount in milliseconds. (The delay must be in multiples of 5, starting from 5ms up to and including 5000ms.)
10. The *Data Output Format* list box and the *Configure Delays* section can be cleared by clicking on the **Clear All** button.
11. Select the desired *AI Mode* from the drop-down list.

12. To create a barcode from the *Data Output Format* list box and/or delays, click on the **Generate Barcode** button. A second window will appear with the barcode. To save the barcode, click on the **Save** button. The barcode will be saved as an HTML file. To print the barcode, click on the **Print** button.
13. The selected configuration that includes the *Data Output Format* list box and delays can be saved into a file. Click on **Save to File** button and select the location to save then click on the **Save** button. The configuration will be saved as an xml file.
14. To generate a barcode from a Saved to File configuration, select **Load from File** button. Select file, then click on the **Open** button. The saved configuration will populate in the *Data Output Format* list box and *Configure Delays* section. To generate a barcode, follow step number 12.
15. To complete the configuration, scan the generated barcode.

CHAPTER

5 INSERTING DELAYS

Delays can be introduced in the data transmission using Data Formatter. The Data Formatting string can be sent as a serial command, built in a menu code, or created in EZConfig for Scanning. Follow input format needed as outlined in the scanner's User Guide available at www.honeywellaidc.com.

The EF command in the system data formatter will insert a delay between fields in the output.

To test the delay, follow these steps:

1. Setup Easy*Parse* for GS1 DataBar to output data as GTIN [AI-01] [Horizontal Tab] USE BY or EXPIRY [AI-17].
2. For a delay after GTIN [AI-01], send the following data format string to the scanner:

   DFMBK30124999999F30900EF1000F100.

   The breakdown of the command line is shown below:

DFMBK3	inform the scanner the following string is data format
0	primary data format
124	terminal interface to apply data format. (124 = USB Keyboard wedge)
99	symbology ID (99 is a wildcard for all symbologies)
9999	length of barcode to apply data format (9999 is a wildcard for all lengths)
F30900	sends out all data up to, but not including the 09 [Horizontal Tab] character, followed by 00 [Null]
EF1000	inserts a delay of 5000ms (1000 x 5ms)
F100	sends the remainder data from the current virtual pointer position
.	informs scanner to save data to non-volatile flash

3. The output will be GTIN [AI-01], a delay of 5000ms, Horizontal Tab, then USE BY or EXPIRY [AI-17].

Note: *The system data formatter is based on the position of the virtual pointer in the data buffer.*

The EF delay command will only work with keyboard interfaces, i.e. USB keyboard or PS/2 keyboard.

CHAPTER

6 VERSION IDENTIFICATION

Scan the barcode below to transmit the version of software the scanner is running.

Transmit EasyParse for GS1 DataBar Version

Transmit GS1 Specification Version

Note: *If the characters @#$EasyParseVersion$#@ are transmitted when the* ***Transmit EasyParse for GS1 DataBar Version*** *barcode is scanned, then the unit is not equipped with the software plug-in.*

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